

## Schedule of Talks and Discussions

### Monday, August 15

18:00 - Reception

### Tuesday, August 16

**Chairman: L.N. Lipatov**

09:00 - 09:30 St.D. Glazek  
*Program of the workshop*

09:30 - 11:00 V.N. Gribov  
*Confinement and features of hadronic spectrum*

11:30 - 13:00 L. Susskind  
*A model of mesons based on  $\chi$ SB in the light-front frame*

15:00 - 16:30 K.G. Wilson  
*Light-front QCD and the Constituent Quark Model*

17:00 - 18:30 K.G. Wilson  
*discussion:  $\chi$ SB and light-front QCD*

### Wednesday, August 17

**Chairman: L. Susskind**

09:00 - 10:00 T.-M. Yan  
*Heavy quark symmetry and chiral dynamics*

10:00 - 11:00 H.J. Weber  
*Nucleon structure functions and form factors  
in the Constituent Quark Model on the light-cone*

11:30 - 13:00 R.J. Perry  
*discussion: A naive confining potential*

14:00 - 15:00 R.J. Perry  
*discussion: A naive confining potential - continued*

15:00 - 16:00 J. Bartels  
*Low- $x$  physics in deep inelastic scattering and the Regge limit in QCD*

16:00 - 17:00 L.N. Lipatov  
*Multi-color QCD and exactly solvable lattice theories*

17:30 - 18:30 K.G. Wilson  
*discussion:  $\chi$  SB and light-front QCD - continued*

**Thursday, August 18**

**Chairman: S. Pinsky**

- 09:00 - 09:40 G. McCartor  
*The vacuum in the light-cone representation*
- 09:40 - 10:20 A. Kalloniatis  
*A paradigm for solving the QCD zero mode problem in DLCQ*
- 10:20 - 11:00 B. Van de Sande  
*Spontaneous symmetry breaking in light-front field theory*
- 11:40 - 12:20 D. Robertson  
*Light-cone quantization of electrodynamics*
- 12:20 - 13:00 T. Heinzl  
*Light-front quantization of gauge theories in a finite volume*
- 14:30 - 15:00 J.P. Vary  
*Massive Schwinger model for small fermion mass*
- 15:00 - 16:30 G. McCartor, H.C. Pauli, S. Pinsky  
*discussion: Light-front zero modes*
- 17:00 - 17:40 A. Khodjamirian  
*QCD sum rules for heavy meson form factors*
- 17:40 - 18:30 D. Wyler  
*discussion: Hadronic matrix elements*
- 19:00 - Conference Dinner

**Friday, August 19**

**Chairman: T.-M. Yan**

- 09:00 - 09:40 A. Harindranath  
*Parton model from field theory via light-front current algebra*
- 09:40 - 11:00 L. Susskind  
*Partons and black holes*
- 11:30 - 13:00 K.G. Wilson  
*discussion: Light-front ABC*
- 14:00 - 15:00 Yu. Orlov  
*Logic of quantum mechanics*
- 15:00 - 16:30 K.G. Wilson  
*discussion: Light-front DEF*
- 17:00 - 17:45 M. Stingl  
*Systematic extended iterative solution for QCD*
- 17:45 - 18:30 J.M. Namysłowski  
*Condensates and confinement in QCD vertex functions*
- 19:00 - 21:00 Education Meeting

**Monday, August 22**

**Chairman: J.M. Namyslowski**

- 09:00 - 09:40 R. Soldati  
*The Mandelstam-Leibbrandt prescription and DLCQ*
- 09:40 - 10:20 T. Walhout  
*Renormalization in an invariant light front picture*
- 10:20 - 11:00 C.-R. Ji  
*Self-energies and rotational symmetry*
- 11:30 - 13:00 St.D. Glazek  
*discussion: Similarity renormalization scheme*
- 15:00 - 16:30 L. Susskind *discussion: Susskind's questions to Lipatov*  
K.G. Wilson *discussion: Similarity computer code*
- 17:00 - 17:45 A. Szczepaniak  
*Constituent quark structure*
- 17:45 - 18:30 N. Ligterink  
*Feynman diagrams and light-cone time ordered diagrams*

**Tuesday, August 23**

**Chairman: R.J. Perry**

- 09:00 - 09:40 H.C. Pauli  
*The need for an effective interaction in front form of Hamiltonian QCD*
- 09:40 - 10:10 S. Pinsky  
*Topology and confinement in light-front QCD*
- 10:10 - 11:00 A.Yu. Dubin  
*Light cone dynamics of the QCD string with quarks*
- 11:30 - 12:15 M.Burkardt  
*How to measure the  $Q\bar{Q}$  potential in a light-front calculation*
- 12:15 - 13:00 P. Griffin  
*Light-front Hamiltonian for transverse lattice QCD*
- 15:00 - 15:45 C. Martin  
*Gauge invariant variables for SU(2) Yang-Mills theory*
- 15:45 - 16:30 E. Kuraev  
*Kaons decay in bilocal meson model*
- 17:00 - 17:45 V.A. Karmanov  
*Explicitly covariant light-front dynamics and deuteron*
- 17:45 - 18:30 J.F. Mathiot  
*Meson Exchange Currents and electrodisintegration of deuteron in light-front dynamics*

**Wednesday, August 24**

**Chairman: H.J. Weber**

- 09:00 - 09:40 A. Smirnov  
*Relativistic covariance and  
light-front electromagnetic vertex of a bound system*
- 09:40 - 10:20 Yu. Uzikov  
 *$D(e, ep)N^*$  reaction and the  $NN^*$ -structure of the deuteron*
- 10:20 - 11:00 E. Prokhvatilov  
*The limiting transition to the light-front Hamiltonian*
- 11:30 - 12:15 J. Hiller  
*The electron's anomalous moment in large-alpha QED:  
a progress report*
- 12:15 - 13:00 E. Ammons  
*Renormalized light-front Tamm-Dancoff approach to  
QED and Compton scattering*
- 15:00 - 15:45 L. Szymanowski  
*Effective action for high-energy scattering in QCD*
- 15:45 - 16:30 R. Kirschner  
*High-energy scattering with flavour exchange  
and properties of reggeon interactions in QCD*
- 17:00 - 17:45 E.A. Bartnik  
*SSB and effective light-front interactions*
- 17:45 - 18:30 St.D. Głazek  
*discussion: Relativistic Nuclear Physics - continued*

**Thursday, August 25**

- 09:00 - 11:00 Open discussion session
- 11:30 - 12:00 St.D. Głazek  
*Conclusion*